AMENDMENTS TO THE CLAIMS

The following listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-119 (Cancelled)

120. (New) An optical code scanning system for reading an optical code, said scanning system comprising:

a sensor module including a photo sensor array for sensing light reflected from at least a portion of the optical code and incident on the sensor module, and generating two-dimensional pixel data corresponding to the sensing; and

at least one processor comprising:

means for determining whether an orientation of data of the pixel data which corresponds to the optical code is within a predetermined orientation threshold range;

means for decoding the pixel data which corresponds to the optical code; and

means for enabling the decoding in accordance with a result of the determining.

121. (New) The scanning system according to Claim 120, the processor further comprising means for locating data of the pixel data corresponding to the optical code, wherein the determining by the means for determining comprises determining the orientation of the located data, and determining whether the determined orientation is within the predetermined orientation threshold range.

122. (New) The scanning system according to Claim 120, the at least one processor further comprising means for receiving a request signal, wherein the means for decoding is enabled in accordance with the request signal.

123. (New) The scanning system according to Claim 120, further comprising: means for receiving a parameter request, wherein the predetermined orientation threshold range is selected in accordance with the received parameter request.

124. (New) The scanning system according to Claim 120, the at least one processor further comprising means for processing an input optical code read by the scanner system;

wherein the input optical code includes a parameter request; and

wherein the predetermined orientation threshold range is set in accordance with the parameter request.

125. (New) The scanning system according to Claim 120, wherein the predetermined orientation threshold range is defined by a range of angles relative to a predetermined axis.

126. (New) A method for reading an optical code comprising:

sensing light reflected from at least a portion of the optical code and incident on the sensor module;

generating two-dimensional pixel data corresponding to the sensing;

determining whether an orientation of data of the pixel data which corresponds to the optical code is within a predetermined orientation threshold range;

decoding the pixel data which corresponds to the optical code; and

enabling the decoding in accordance with a result of the determining.

127. (New) The method according to Claim 126, further comprising locating data of the pixel data corresponding to the optical code, wherein the determining comprises:

determining the orientation of the located data; and

determining whether the determined orientation is within the predetermined orientation threshold range.

128. (New) The method according to Claim 126, further comprising:

receiving a request signal; and

enabling the decoding in accordance with the request signal.

129. (New) The method according to Claim 126, further comprising receiving a parameter request, and selecting the predetermined orientation threshold range in accordance with the received parameter request.

130. (New) The method according to Claim 126, further comprising:

reading an input optical code, wherein the input optical code includes a parameter request; and

selecting the predetermined orientation threshold range in accordance with the parameter request.

131. (New) The method according to Claim 126, wherein the predetermined orientation threshold range is defined by a range of angles relative to a predetermined axis.

132. (New) An optical code scanner system comprising:

a sensor module including a photo sensor array for sensing light reflected from at least a portion of a target optical code and incident on the sensor module, and generating two-dimensional pixel data corresponding to the sensing; and

at least one processor comprising:

a decoder for decoding the pixel data for reading the target optical code;

means for determining whether an orientation of data of the pixel data which corresponds to the target optical code is within a predetermined orientation threshold range; and

means for operating the scanning system in at least a first and second mode, wherein:

when operating in the first mode the decoder decodes the target optical code regardless of a result of the determining by the means for determining; and

when operating in the second mode the decoder decodes the target optical code in accordance with the result of the determining by the means for determining.

133. (New) The scanner system according to Claim 132, wherein when operating in the second mode, the scanner system operates as a single line scanning system.

134. (New) The scanner system according to Claim 132:

wherein the at least first and second mode further includes a third mode; and wherein the at least one processor processes a request for selecting the predetermined orientation threshold range when operating in the third mode.

135. (New) The scanner system according to Claim 132, wherein the at least one processor further comprises a means for processing a user input optical code read by the scanning system;

wherein the user input optical code includes at least one input request selected from the group consisting of a mode selection request and a parameter request; and

wherein the means for operating the scanning system operates in a selected mode of the at least first and second mode in accordance with the processing of the mode selection request, and the predetermined orientation threshold range is configured in accordance with the processing of the parameter request.

136. (New) The scanner system according to Claim 132, further comprising one single position actuator responsive to at least one user action for generating a user request signal; and

wherein the at least one processor further comprises means for controlling the means for operating the scanning system in at least the first and second mode and the decoder in accordance with the user request signal.

137. (New) A method for imaging an optical code comprising:

sensing light reflected from at least a portion of a target optical code and incident on the sensor module;

generating two-dimensional pixel data corresponding to the sensing;

decoding the pixel data for reading the target optical code;

determining whether an orientation of data of the pixel data which corresponds to an optical code is within a predetermined orientation threshold range;

operating in at least a first and second mode, wherein:

when operating in the first mode the decoding the pixel data is performed regardless of a result of the determining; and

when operating in the second mode the decoding the pixel data is performed in accordance with the result of the determining.

138. (New) The method according to Claim 137, wherein the at least first and second mode further includes a third mode; the method further comprising processing a request for selecting the predetermined orientation threshold range when operating in the third mode.

139. (New) The method according to Claim 137, further comprising:

processing a user input optical code read as a target optical code, wherein the user input optical code includes at least one input request selected from the group consisting of a mode selection request and a parameter request; and

the operating the scanner system in at least a first or second mode includes selecting a mode of the at least first and second mode in accordance with the processing of the mode selection request, and the predetermined orientation threshold range is configured in accordance with the processing of the parameter request.

140. (New) The method according to Claim 139, further comprising:

receiving a user request signal generated by one single position actuator responsive to at least one user action; and

controlling the operating the scanning system in at least the first and second mode and the decoder in accordance with the user request signal.